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## Supporting information

**Table A.** Characteristics of participants who were evaluated at the 30 and 18 years old visits, 1982 and 1993 Pelotas Birth Cohorts, respectively.

Independent variables	1982 cohort		1993 cohort	
	N	%	N	%
<b>Early-life characteristics</b>				
Sex				
Girls	2876	48.6	2642	50.3
Boys	3037	51.4	2606	49.7
Skin Color				
White	2817	78.6	2769	66.5
Black and brown	768	21.4	1395	33.5
Low birth weight				
No	5375	91.0	4739	90.3
Yes	534	9.0	510	9.7
Stunting (<-2 height/age)*				
No	1333	91.5	1179	86.6
Yes	124	8.5	182	13.4
Wasting (<-2 weight/height)*				
No	1427	97.9	1344	98.7
Yes	30	2.1	17	1.3
Overweight (>2 bmi/age)*				
No	1356	93.1	1231	90.4
Yes	101	6.9	130	9.6
<b>Contemporary characteristics</b>				
Parental history of diabetes**				
No	2053	67.7	3987	91.8
Yes	980	32.3	354	8.2
Family income (tertiles				
1 (poorer)	1191	34.2	1404	34.2

2	1137	32.6	1336	32.5
3 (richest)	1155	33.2	1366	33.3
Smoking				
Non-smokers	2139	58.7	3179	77.5
Ex-smokers	647	17.7	354	8.6
Smokers	860	23.6	570	13.9
Alcohol intake (servings per day)				
0 to 2	836	30.8	1954	64.8
3 to 8	1669	61.6	859	28.5
9 or more	205	7.6	203	6.7
Physical inactivity				
No	2091	58.0	2495	60.9
Yes	1515	42.0	1600	39.1
Nutritional status				
Underweight and normal	1509	42.5	2881	72.7
Overweight	1228	34.6	680	17.2
Obesity	814	22.9	400	10.1
Waist circumference (tertiles)				
1 (lowest)	1189	33.3	1330	33.4
2	1192	33.4	1325	33.3
3 (highest)	1186	33.3	1322	33.3

\* One year old follow-up

\*\* 1993 cohort: eleven year old follow-up

**Table B.** Unadjusted mean and SE for HbA<sub>1c</sub> according to early-life, demographic, socioeconomic and behavioral factors, parent history of diabetes, nutritional status and waist circumference among adults in the 1982 Pelotas Birth Cohort in the maximal sample.

Independent variables	N	Mean (SE)	p-value
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<b>Early- life characteristics</b>			
Sex			0.058 <sup>a</sup>
Girls	1778	5.09 (0.01)	
Boys	1729	5.11 (0.01)	
Skin Color			0.039 <sup>a</sup>
White	2664	5.09 (0.01)	
Black and brown	731	5.13 (0.02)	
Low birth weight			0.585
No	3256	5.10 (0.01)	
Yes	250	5.11 (0.03)	
Stunting (<-2 height/age)*			0.570
No	863	5.12 (0.14)	
Yes	73	5.09 (0.05)	
Wasting (<-2 weight/height)*			0.012
No	923	5.11 (0.01)	
Yes	13	5.40 (0.07)	
Overweight (>2 bmi/age)*			0.495
No	874	5.12 (0.01)	
Yes	62	5.08 (0.06)	
<b>Contemporary characteristics</b>			
Parental history of diabetes			0.003 <sup>a</sup>
No	1960	5.09 (0.01)	
Yes	933	5.14 (0.01)	

Family income (tertiles)			0.445 <sup>a</sup>
1 (poorer)	1133	5.08 (0.01)	
2	1093	5.10 (0.01)	
3 (richest)	1086	5.10 (0.01)	
Smoking			0.687 <sup>a</sup>
Non-smokers	2027	5.09 (0.01)	
Ex-smokers	614	5.11 (0.02)	
Smokers	824	5.10 (0.02)	
Alcohol intake (servings per day)			0.082 <sup>a</sup>
0 to 1	1847	5.08 (0.02)	
2 to 7	558	5.11 (0.01)	
8 or more	200	5.10 (0.03)	
Physical inactivity			0.498 <sup>a</sup>
No	1992	5.09 (0.01)	
Yes	1444	5.10 (0.01)	
Nutritional status			<0.001 <sup>b</sup>
Underweight and normal	1478	5.07 (0.01)	
Overweight	1204	5.10 (0.01)	
Obesity	797	5.15 (0.02)	
Waist circumference (tertiles)			<0.001 <sup>b</sup>
1 (lowest)	1165	5.06 (0.01)	
2	1162	5.10 (0.01)	
3 (highest)	1160	5.14 (0.01)	

HbA<sub>1c</sub> shown as percentage of total haemoglobin

SE: standard error

Adjusted for all the independent variables

\*Subsample at one year-old follow-up (1983)

<sup>a</sup> T test or ANOVA

<sup>b</sup> Linear trend

<sup>c</sup> Wald test

**Table C.** Unadjusted mean and SE for HbA<sub>1c</sub> according to early-life, demographic, socioeconomic and behavioral factors, parent history of diabetes, nutritional status and waist circumference among adolescents in the 1993 Pelotas Birth Cohort in the maximal sample.

Independent variables	N	Mean (SE)	p-value
<b>Early-life characteristics</b>			
Sex			<0.001 <sup>a</sup>
Girls	1892	4.83 (0.01)	
Boys	1913	4.95 (0.01)	
Skin Color			0.001 <sup>a</sup>
White	2340	4.87 (0.01)	
Black and brown	1182	4.92 (0.02)	
Low birth weight			0.438
No	3462	4.89 (0.01)	
Yes	347	4.91 (0.03)	
Stunting (<-2 height/age)*			0.159

No	922	4.89 (0.02)	
Yes	135	4.80 (0.06)	
Wasting (<-2 weight/height)*			0.275
No	1047	4.88 (0.02)	
Yes	10	5.07 (0.18)	
Overweight (>2 bmi/age)*			0.387
No	961	4.88 (0.02)	
Yes	96	4.84 (0.05)	
<b>Contemporary characteristics</b>			
Parental history of diabetes			0.155 <sup>a</sup>
No	3317	4.89 (0.01)	
Yes	301	4.93 (0.03)	
Family income (tertiles)			0.577 <sup>b</sup>
1 (poorer)	1282	4.89 (0.01)	
2	1243	4.90 (0.01)	
3 (richest)	1280	4.88 (0.01)	
Smoking			0.698 <sup>b</sup>
Non-smokers	2954	4.89 (0.01)	
Ex-smokers	312	4.89 (0.03)	
Smokers	536	4.91 (0.02)	
Alcohol intake (servings per day)			0.024 <sup>a</sup>
0 to 2	1832	4.90 (0.01)	
3 to 8	796	4.88 (0.02)	

9 or more	192	4.99 (0.03)	
Physical inactivity			0.024 <sup>a</sup>
No	2319	4.90 (0.01)	
Yes	1477	4.87 (0.01)	
Nutritional status			0.258 <sup>b</sup>
Underweight and normal	2752	4.89 (0.01)	
Overweight	651	4.90 (0.02)	
Obesity	375	4.92 (0.03)	
Waist circumference (tertiles)			<0.001 <sup>b</sup>
1 (lowest)	1269	4.85 (0.01)	
2	1266	4.90 (0.01)	
3 (highest)	1260	4.92 (0.01)	

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HbA<sub>1c</sub> shown as percentage of total haemoglobin

SE: standard error

Adjusted for all the independent variables

\*Subsample at one year-old follow-up (1994)

<sup>a</sup> T test or ANOVA

<sup>b</sup> Linear trend

<sup>c</sup> Wald test